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Manufacturing

Fabrication Technology I/II

PLTW Introduction to Engineering Design

PLTW - Computer Integrated Manufacturing

College Advanced Machine Technology (DC)

College Advanced CNC Manufacturing (DC)

High School District 214 Graduation Requirements

English

English | English | English | English

Course Descriptions Section - Page 223

4.0 credit units

Mathematics

Mathematics | Mathematics | Mathematics | Mathematics (Recommended)

Including one unit of Algebra I and one unit of Geometry.
Course Descriptions Section - Page 251

3.0 credit units

Social Science

Social Science | Social Science | Social Science (Recommended)

Must include one year of U.S. History or combination of U.S. History and American Government and one semester civics.
Course Descriptions Section - Page 269

2.0 credit units

Science

Science | Science | Science (Recommended)

Course Descriptions Section - Page 261

2.0 credit units

Career & Technical Education

Career and Technical Education

Course Descriptions Section - Page 275

1.0 credit unit

Fine Arts

Fine Arts

Course Descriptions Section - Page 239

0.5 credit unit

Consumer Education

Consumer Education

Students meet the consumer education graduation requirement by passing one of the following courses or combination of courses: Personal Finance (06210) - Page 288, Economics (07830) - Page 273, Consumer Education (59940) - Page 274.

0.25 credit unit

Physical Education

Physical Education | Health | Physical Education | Physical Education

A minimum of 3-5 days of daily physical education is a required course for all students in each of four years of high school. The State also requires that students during high school take a minimum of 18 weeks (one semester) of health education.*
Course Descriptions Section - Page 309

Refer to page 327 in Academic Policies and Procedures section regarding substitutions for physical education.



Post Secondary

Career Related Electives

- Robotics
- PLTW Principles of Engineering

Career Related Activities for the Manufacturing pathway

- Athletics
- District Career Days
- District Career Nights
- District Career Treks
- High Mileage Vehicle Club
- Robot Rumble
- Skills USA
- Theater Tech Crew
- Wildstang FIRST Robotics

Four-Year University Admission Requirements

- English (4 years)
- Mathematics (4 years)
- Social Science (3-4 years)
- Science (2-3 years)
- World Language (2-3 years)
- Fine Arts (1-2 years)

See your counselor regarding admission requirements for highly selective institutions.

Honors, Advance Placement and Dual Credit courses are offered throughout the curriculum. Please consult with your high school counselor for the latest information regarding course offerings, scheduling and registration for all career pathways and courses.

**This represents the number of units of credit required at full implementation for the graduating class of 2012 and beyond (12 units, assuming a unit is equivalent to a year-long course). Additionally, physical education, while not a state graduation requirement is a required course for all students a minimum of 3-5 days a week in each of four years of high school (See ILCS 110,5/27-6 and 23 Ill. Adm. Code Section 1.425).*



Manufacturing and NASA



District 214's Manufacturing Pathway provides students with state-of-the-art opportunities to earn early college credit and career credentials and complete real-world internships while in high school. In-school manufacturing laboratories, furnished with equipment donated or underwritten by partnering manufacturers, are supported by a curriculum designed in part by manufacturers that know what's needed in the industry.

For example, Buffalo Grove High School's Manufacturing Laboratory is getting a \$1 million, thanks to an alumnus donor, which will make it one of the most innovative labs in the state.

At Wheeling High School, students in manufacturing courses have been able to work directly with NASA, building brackets and handles that will be used on the International Space Station. The pieces will help astronauts move in zero gravity. Wheeling was one of 15 high schools in the country and the only in Illinois to participate.

The Northwest suburbs are home to many manufacturing companies, and a skills gap remains: Companies need well-trained employees to take on family-sustaining careers. District 214's manufacturing curriculum ensures that students who graduate high school are career ready, educating the next generation of manufacturers with the skills for success.